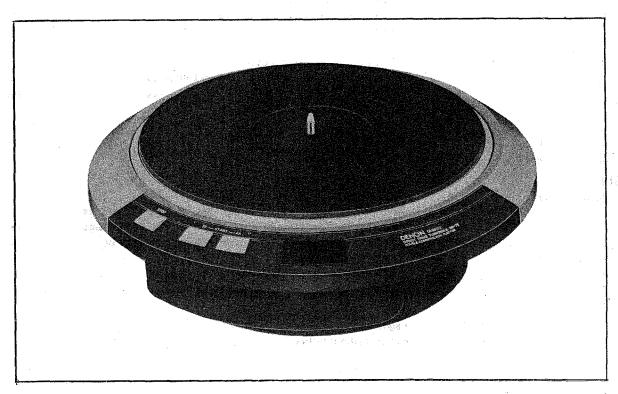
DENON

SERVICE MANUAL

SERVO-CONTROLLED DIRECT DRIVE TURNTABLE

MODEL DP-75



Model DP-75

NIPPON COLUMBIA CO., LTD.

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SPECIFICATIONS

PHONO MOTOR

Drive system:

Speeds:

Wow/flutter:

S/N ratio:

Starting time:

Turntable platter:

Motor:

Speed control system:

Load influence:

Brake system: Speed deviation:

GENERAL

Power supply:

Power consumption: **Dimensions:**

Weight:

Direct drive by AC servo motor

33-1/3 rpm and 45 rpm

Less than 0.015% Wrms*

More than 80 dB (DIN-B)

Less than 1.6 sec, to reach 33-1/3 rpm. Casted aluminum alloy, 308 mm diam.

Weight: 3.1 kg

Moment of inertia: 370 kg-cm² (including turntable mat)

AC out-rotor type servo motor

Speed servo control by frequency detection system combined with phase

control system with reference to the quartz crystal oscillator, (Speed servo

control only at variable speed mode)

0% (At out-most groove with stylus force of 150g)

Electronic brake Less than 0.002%

AC 50Hz/60Hz

Voltage is indicated on the rating label. Multiple voltages are indicated if the equipment is provided with the user operated voltage selector. If single voltage is indicated, the equipment has only fixed voltage or the voltage selector

is blinded by the shield plate.

9W (At out-most groove with stylus force of 2.5g)

376 diam. x 140(H)(mm)

9.3Kg

SAFETY PRECAUTIONS

Replace always with correct parts having correct rating, shape and material, etc. Especially the component with shading and/or A mark must be replaced only by the specified component for safety reasons.

NOTE

The Model DP-75 can be divided into two groups, the multiple voltage version with voltage selector, and the fixed voltage version with exclusive transformer.

Measured by DENON's method using magnetic pulse wheel.

Above specifications are subject to alteration without notice.

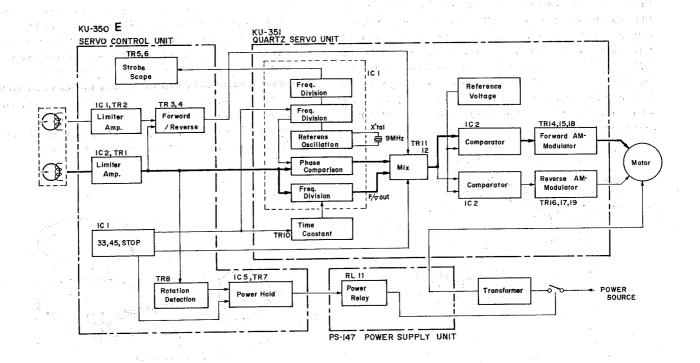


Fig. 1 Block Diagram of DP-75

Block diagram of the phono motor servo circuit is shown in Fig. 1.

The speed detection magnetic head encapsulates two sets of detection windings with a phase difference of 90 degrees. This head detects direction of platter rotation as well as its speed.

The output waveform detected by the magnetic head is shaped into rectangular waves by the limiter circuits (IC 2 and IC 3 on KU-350). The phase difference of these rectangular waves gives signal if the direction of platter is forward or reverse.

At the same time, the output frequency (555.5Hz at 33 rpm, 750Hz at 45 rpm) of one of the limiter circuit (IC 2, TR 1 on KU-350) is fed to the servo control IC (IC 1 on KU-351).

On one branch inside the IC 1 (on KU-351), the frequency signal is converted into a voltage inversely proportional to the speed (frequency) by the F/V converter.

On the other branch, the input frequency is divided therein to the same frequency as the reference frequency (138.9 Hz at 33 rpm, 187.5Hz at 45 rpm) which is also divided from the 9MHz quartz crystal oscillator so that the phase relation can be compared. The phase difference appears at the output in terms of voltage difference.

The output voltages of the F/V converter and the phase comparator are mixed and then compared with a reference voltage to modulate the amplitude of the motor drive circuits of either forward or reverse direction.

The change-over of the speed is performed by changing the dividing denominator of the reference frequency and simultaneously changing the proportion of the F/V converter.

The strobe scope is flashed by 1/2 the frequency of that of the comparison reference.

The limiter output (IC 2, TR 1 on KU-350) further detects if the platter is rotating or not, feeding the signal into the rotation detection circuit (TR 8, IC 5 on KU-350). Combined with this rotation detection circuit, when the start button, 33 or 45 is pressed, the power memory circuit (IC 5 flip-flop, TR 7 on KU-350) holds the power relay RL 11 on PS-147) until the rotation becomes almost still after the stop button is pressed.

SERVICE HINTS

1. When the magnetic head is serviced:

Make sure that the terminal connection is as shown in the Fig. 2. Otherwise, the platter may turn reversely.

Adjust the space between the magnetic head and magnetically coated surface of the platter to 0.2mm by inserting a piece of paper and secure it. Take note that variation of this space causes variation of stopping condition of the platter, or the decay time of the rotation detection circuit. Normal condition while the turntable mat being removed is that there remains a slight forward glinding of platter when stopping. Never allow reverse movement of platter when stopping.

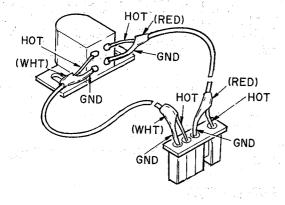


Fig.2 Head connection

2. Confirming regulator voltage:

An IC is employed for regulation voltage, allowing no fine adjustment. Confirm this voltage is 5V.

3. Adjustment of speed (KU-351)

- Connect a dual trace oscilloscope to TP-1 on KU-351 P. W. board.
- (2) Start 45 rpm rotation first. Adjust VR 2 so that the sampling pulse comes at 60% position from starting edge of the saw tooth waveform. (See Fig. 3.)
- (3) Change over to 33 rpm and adjust VR 1 to bring the pulse to 60% position in the same manner.

NOTE

If a single trace oscilloscope is used for adjustment, connect the ground terminal of the oscilloscope to the sampling waveform output of TP-1 instead of connecting to ground terminal thereof. Duplexed waveform can be observed.

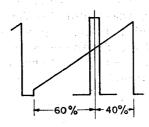


Fig. 3 Speed adjustment

CAUTION! (Models with the voltage selector)

This equipment has been preset for a line voltage of 220V. Before inserting the power plug, please check if this voltage corresponds with the line voltage in your area. If it does not, be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the base surface below the turntable platter. Simply insert a screw driver into the voltage selector switch and turn it in either direction so that the desired voltage marked on the switch is positioned at the drilled mark of the base. See the figures below.

Damage of equipment because of missetting of voltage selector is not within the limit of DENON liability.

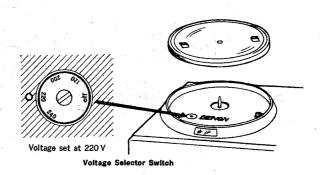


Fig. 4 Voltage Selector Switch

Set the voltage selector in accordance with the nominal power supply voltage as shown in the table.

ACTUAL (nominal) VOLTAGE (volt)	VOLTAGE SETTING
110 115 120	120
200	200
210 220	220 : 1985
230 240	240

army community to be transported

Table 1. Voltage Setting

KU-350 E SERVO CONTROL UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMI CONE	OUCTOR GRO	UP	
IC4	2680009005	FS7805M	
IC1,5	2620078009	HD7438	
IC2, 3		TA7122BP (C)	v (4°
TR1~5, 7,	2730204019		
	2730204019		[
8			
TR6,9	2740036002		
D13	2760215007	MI152	[15] N
D14	2760215010		
D1,3,5~	2760049008		
	2700043000	132070	1
12, 18, 19			
D22	2760236002	HZ5B	
D23	2760098004		244
D16, 17, 20	2760216019		\$4.45 × 5.5
21	[s	1990 - 1190	2 3
	<u></u>		1.00
RESISTOR	GROUP		<u> </u>
	140 (2)	a te lakulak ji jakulak a	Carbon film
R1, 2, 5	2412082009	RD14B2E391J	
R10, 19			560ΩJ ¼W
•	1	and the second s	
R29,36~39	2412092002	RD14B2E102J	, 1KΩJ ¼W
41,46,47]	[24] TAN	n 14
R6, 15	2412100004	RD14B2E222J	2.2KΩJ ¼W
R13, 22, 24	2412108006	RD14B2E472J	4.7KΩJ ¼W
27,30			
•	2412116004	RD14B2E103J	10KΩJ ¼W
	2412116001	11D 14DZE 1033	10K44J 74VV
42, 45	1	Alian ji da Afrika	
R14, 23, 28	2412124006	RD14B2E223J	22KΩJ ¼W
R7, 16	2412132001	RD14B2E473J	47KΩJ ¼W
-	2412140006	RD14B2E104J	· ·
	1	,	Albania .
20, 25, 26,	1.7		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
43,45	<u> </u>		15
R9, 18	2412156003	RD14B2E474J	470KΩJ ¼W
CAPACITOR	ROUP	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 to 1 to 1
			Electrolitie
	054455555	0004344	Electrolitic
C7, 14, 24	2544009002	CE04W1A470 =	47μF 10V
C9, 10, 16	2544015009	CE04W1C100 =	10μF 16V
17			
C3	2544016008	CE04W1C330 =	33μF 16V
C19, 23	2544018006	CE04W1C101 =	100μF 16V
C21	2544032008	CE04W1E102 =	1000µF 25V
C6, 13, 26	2544043000	CE04W1HR47 =	0.47µF 50V
	.		Film
C11,18	2551060005	CQ93M1H102K	0.001µF 50V
	2551064001		le control of the con
C27		CQ93M1H222K	lt i i i i i i i i i i i i i i i i i i i
C5, 12	2551076002	CQ93M1H223K	0.022μF 50V
			0.022μF 50V 0.1μF 50V
C5, 12	2551076002	CQ93M1H223K	0.022μF 50V
C5, 12 C22 C25	2551076002 2551084007 2551087004	CQ93M1H223K CQ93M1H104K CQ93M1H184K	0.022μF 50V 0.1μF 50V 0.18μF 50V
C5, 12 C22 C25 C1, 2, 4, 20,	2551076002 2551084007 2551087004	CQ93M1H223K CQ93M1H104K	0.022μF 50V 0.1μF 50V
C5, 12 C22 C25 C1, 2, 4, 20, 28~30	2551076002 2551084007 2551087004 2531004007	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V
C5, 12 C22 C25 C1, 2, 4, 20,	2551076002 2551084007 2551087004	CQ93M1H223K CQ93M1H104K CQ93M1H184K	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V ARD (A)
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3x6 CBS	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V ARD (A) Y IC5 FS780
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3x6 CBS	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V ARD (A) ARD (A) PIN ASS POWER TRANS PIN ASS
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801 FEP12802 FEP12803	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE 3P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V A7pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO PIN ASS HEAD
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801 FEP12802 FEP12803 2055622079	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE 3P MINI CONNE 4P MINI CONNE 7P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V A7pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO PIN ASS HEAD PIN LED SW
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801 FEP12802 FEP12803 2055622079 2035622637	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE 3P MINI CONNE 4P MINI CONNE 7P MINI CONNE 8P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V A7pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO PIN ASS HEAD PIN LED SW PIN
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801 FEP12802 FEP12803 2055622079	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE 3P MINI CONNE 4P MINI CONNE 7P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V A7pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO PIN ASS HEAD PIN LED SW PIN
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801 FEP12802 FEP12803 2055622079 2035622637	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE 3P MINI CONNE 4P MINI CONNE 7P MINI CONNE 8P MINI CONNE	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V A7pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO PIN ASS HEAD PIN LED SW PIN
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15 OTHER PAI	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801 FEP12802 FEP12803 2055622079 2035622637 2035633003	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE 3P MINI CONNE 7P MINI CONNE 8P MINI CONNE 3P EI RIBBON W	0.022μF 50V 0.1μF 50V 0.18μF 50V 0.001μF 50V 47pF 50V A7pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO PIN ASS HEAD PIN LED SW PIN
C5, 12 C22 C25 C1, 2, 4, 20, 28~30 C8, 15 OTHER PAI	2551076002 2551084007 2551087004 2531004007 2533619005 RTS GROUP 2228085300 4178021205 4713303016 FEP12801 FEP12802 FEP12803 2055622079 2035622637 2035633003	CQ93M1H223K CQ93M1H104K CQ93M1H184K CK45B1H102K CC45SL1H470J P. CIRCUIT BOA HEAT SINK STA 3×6 CBS 2P MINI CONNE 3P MINI CONNE 7P MINI CONNE 8P MINI CONNE 3P EI RIBBON W	0.022µF 50V 0.1µF 50V 0.18µF 50V 0.001µF 50V 47pF 50V A7pF 50V ARD (A) AY IC5 FS780 PIN ASS POWER TRANS PIN ASS STROBO PIN ASS HEAD PIN LED SW PIN IRE PLUG

KU-351 QUARTZ SERVO UNIT

	T		
Ref. No.	Part No.	Part Name	Remarks 3
	DUCTOR GRO	1	
IC1 IC2	2620186001 2630075005	SC3120A HA17902P	Committee the larger of
<u> </u>	2710100010	2SA879 (C)-R	
17			Control (College Control College Colle
TR10, 12, 16	2710113007	2SA999 (F)	and the second
TR20	2730108005	28C1162 (C)	
<u> </u>	2730196004	2SC2023 Z	
TR11, 13	2730204019	2SC2320 (F)	A A A A A A A A A A A A A A A A A A A
D1,9~11 D12,13	2760049008 2760057029	1S2076 V06E	
∆ D12, 15	2760280003	RB154	
RESISTOR	GROUP		
	1,311 3		Carbon film
R22, 23	2412044005	RD14B2E100J	10Ω ¼W
R24,31	2412064001	RD14B2E680J	68Ω ¼W
R21,34	2412068007	RD14B2E101J	100Ω ¼W
R2,3, 27,47	2412092002	RD14B2E102J	1KΩ ¼W
R18, 19	2412100004	RD14B2E222J	2,2ΚΩ ¼W
32,33			
R8, 25, 26	2412014000	RD14B2E332J	3.3KΩ ¼W
R4	2412106008	RD14B2E392J	3.9KΩ ¼W
R6, 38, 39 R9, 20, 30	2412110007 2412116001	RD14B2E562J RD14B2E103J	5.6KΩ ¼W 10KΩ ¼W
R12	2412120000	RD14B2E153J	15KΩ ¼W
R44	2412124006	RD14B2E223J	22KΩ ¼W
R11	2412126004	RD14B2E273J	27KΩ ¼W
R45, 46, 48	2412132001	RD14B2E473J	47KΩ ¼W
R5	2412158001	RD14B2E564J	560KΩ ¼W
R16	2412160002	RD14B2E684J	680KΩ ¼W
R17	2412164008	RD14B2E105J	1MΩ 1⁄4W
R29	2410757006	RD14B2H225J	2.2MΩ ½W
R14	2462004008	RK14=2E122F	1.2ΚΩ ¼W
R1, 7 R36	2462004011 2462004024	RK14=2E332F RK14=2E472F	3,3KΩ ¼W 4,7KΩ ¼W
R43	2462004024	RK14=2E223F	22KΩ ¼W
R15	2462004040	RK14=2E393F	39KΩ ¼W
R13	2462004053	RK14=2E683F	68KΩ ¼W
500.05	0440005000	D044D04040 INI	Metal film
R28, 35 VR1, 2	EP-546213	RS14B3A010JNI SOLID VOLUME	
CAPACITOR	L	DOEID VOLUME	. 10/42
CALACITOI	1 011001	1-	
C15	2544003008	CE04W0J101 =	Electrolitic
C9	2544015009	CE04W1C100 =	10μF 16V
C2	2544016008	CE04W1C330 =	33µF 16V
C13, 14	2544044009	CE04W1H010 =	1μF 50V
010	OEE4000000	000000000000000000000000000000000000000	Film
C10 C6	2551062003 2551070008	CQ93M1H152K CQ93M1H682K	0.0015μF 50V 2.0068μF 50V
C7, 11, 12	2551070008	CQ93M1H103K	0.01μF 50V
C8	2551073005	CQ93M1H123K	0.012µF 50V
C5	2551122011	CQ93M1H563J	0.056µF 50V
C3, 4	2533619005	CC45SL1H470J	47pF 50V
C1	2531004007	CK45B1H102K	0.001µF 50V
OTHER PA	RTS GROUP		
	2228243003	P. CIRCUIT BOA	
	4178055103	HEAT SINK STA	λΥ
	4713303016	3x6 CBS	OMU-
	2618007008 2328008106	CRYSTAL INDUCTOR	9MHz
	2035605009	3P MINI CONNE	SOCKET T.P
	FEP12803	4P MINI CONNE	- · ·
			TO PS-145
	2045333015	8P EI RIBBON W	
			TO KU-350

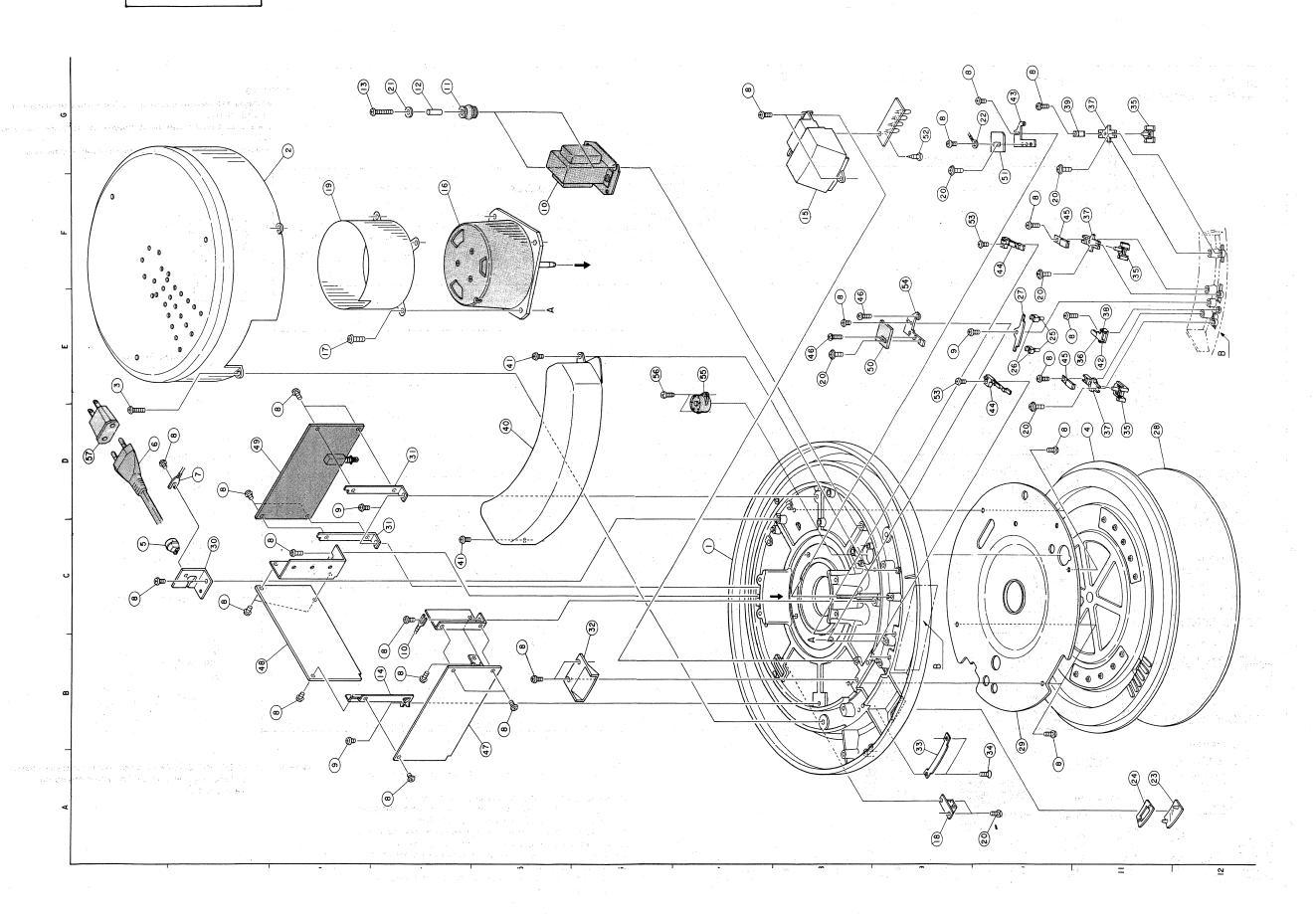
PS-147 POWER SUPPLY UNIT

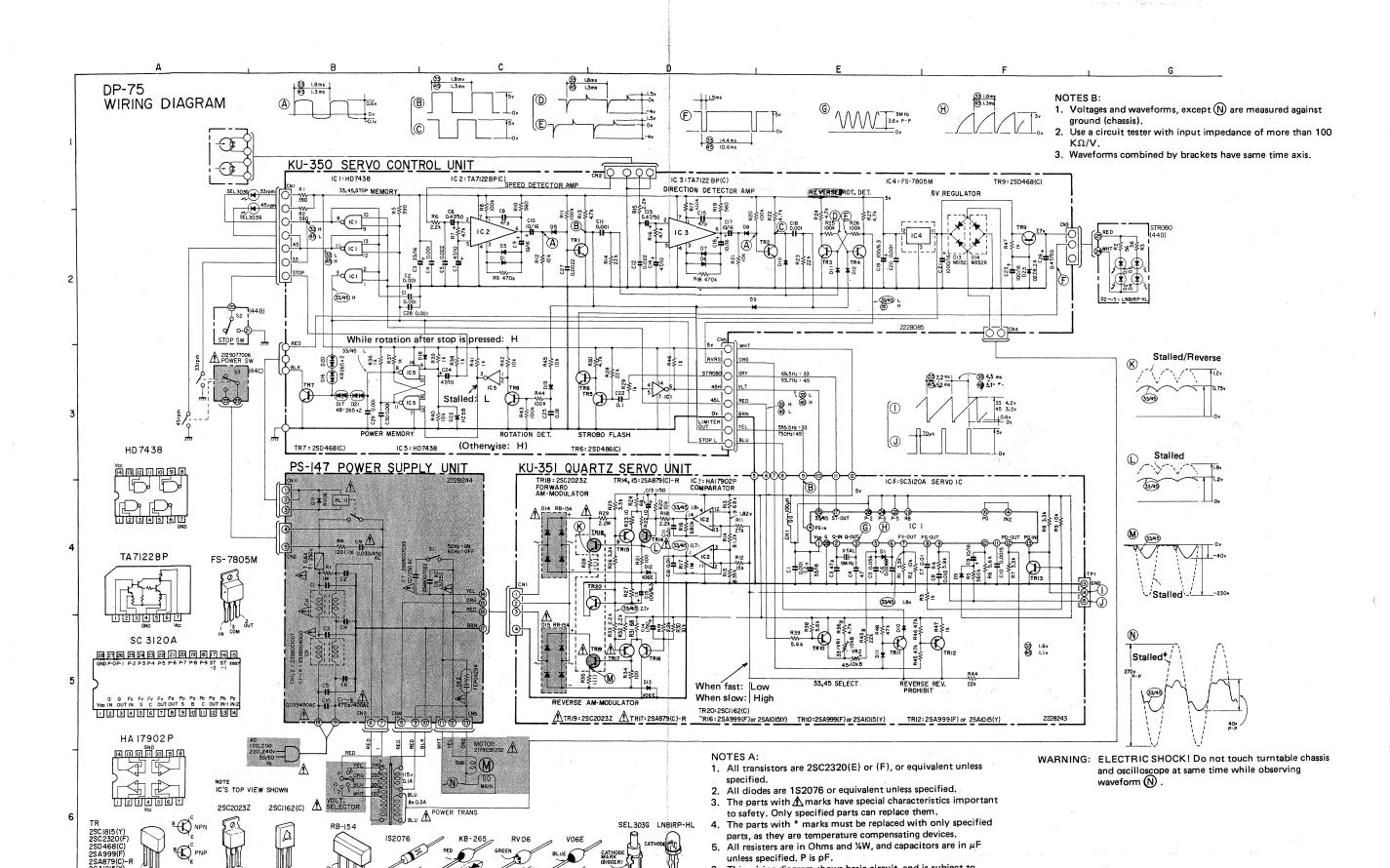
(4) 医乳腺素化蛋白酶医胃上腺素质量(1) (4) (4) (4)

Ref. No.	Part No.	Part Name	Remarks
SEMI CON	DUCTOR GRO	UP	4. + 5
D11	2760237001	RV06	grae saa grad.
D2~5	3939041001	LED	
RESISTOR	GROUP		
			Carbon film
R2,3	2412062003	RD14B2E560J	56Ω ¼W
R1	2412164008	RD14B2E105J	1MΩ ¼W
R4	2410163001	RD14B2H121J	120Ω ½W
CAPACITO	R GROUP	1.4	
C1~6	2538009005	CK45B2GAC471	
	i .		Film
C7 .	2568007093	CF99=2EAC704	
C8	2568007022		J AC250V
	40.00		Oil 1 1 1 1
C9,10	2518001052	CP05C=AC333M	, ja j. 25
OTHER PA	RTS GROUP		
sK2	FEP0429K	SPARK KILLER	
	2228244002	P. CIRCUIT BOA	RD (C)
	2061031016	FUSE	0.8A/250V
	FEP1287	FUSE HOLDER	
	2148051003	POWER RELAY	
CH1, 2	2398001007	LINE FILTER C	OIL
S1	2129015000	PUSH SWITCH	
S2,3	2129077006	MICRO SWITCH	. 1
	EE-1656	BASE TERMINA	
	2058009006	TERMINAL	a et
	FEP1280 1	2P MINI CONNE	PIN ASS
	FEP1280 2	3P MINI CONNE	PIN ASS
ie.	2035622008	3P MINI CONNE	PIN
***	2033634043	2P MINI CON, W	IRE
	2033653008	3P MINI CON. W	IRE

PARTS LIST OF EXPLODED VIEW

	r		Property of the second
Ref. No.	Part No.	Part Name	Remarks
1	4468070005	MOTOR BOARD	North
2	4498036006	COVER ASS'Y	. **
. 3	4713403013	4x6 CBS	a e to e
4	4218149209	TURNTABLE ASS'Y	
5	4450020005	BUSHING	pt 1.5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2062002031	AC CORD	建制基础线
. 7	FEP1206	EARTH WIRE	. •
8	4713303016	3x6 CBS	
9	4713301018	3x4 CBS	41 G 3
▲ 10	2339035003	POWER TRANS	
. 11	1298004008	CUSHION RUBBER	
12	4438060003	SPACER	50
13	4713311011	3×25 CBS	
14	4418204203	CB STAY (B)	e (6.9), 31 (3.1)
15	1468052204	MIRROR CASE ASS'	Υ
1 16	2178039202	SERVO MOTOR	
17	4713404012	4x8 CBS	
18	3918425004	MAGNETIC HEAD A	ss'Y
19	4148090101	MOTOR COVER	
20	4700007019	3x6 CPSW	لمح المراجع الما
21	WA-01074	WASHER	and the second
22	2098005015	EARTH LEAD	
23	1468051001	STROBO WINDOW	
24	4148022001	BLIND	
25	3939087007	SEL303G	
26	4538001108	1	to graduate and
27	4418161003	SOCKET SUPPORT	
28	4218094040	RUBBER SHEET	1.0
29	4148023314	SHIELD PLATE	8 1 64
30	FE-25131	BUSH PLATE	
31	4418052206	C.B. STAY	
32	1468037009	ACRYL COVER	2000000
33	4148036000	SHUTTER	
34	4712303017	3x6 CFS	
35	1138042201	KNOB	
36	4418282005	ACTUATOR	
37	1138043200	KNOB SUPPORT	1
38	4438131107	HINGE SHAFT	
39	4418164408	SPRING PLATE (A)	
40	4498015108	SWITCH COVER	
41	4713403013	4x6 CBS	
42	4418162109	HINGE	
43	4418278006	SW PLATE	ال ا
44	2129052012	LEAF SWITCH	
45	4418223103	SPRING PLATE (B)	
46	4770010106	SPECIAL SCREW	1.5
47	KU-350E	SERVO CONTROL UI	TIV
48	KU-351	QUARTZ SERVO UN	17 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
∆ 49	PS-147	POWER SUPPLY UNI	BOOK WAS REPORTED BY STREET AND REPORT OF THE PROPERTY OF THE PARTY OF
⚠ 50	PS-147-44C	POWER SW S3	
51	PS-147-44B	STOP SW S2	residence i
52	4733800010	3×8 CBTS	
53	4713304015	3×8 CBS	
54	4418278019	SWITCH PLATE	
<u>^</u> 55	2123315010	VOLTAGE SELECTO	A
56	4713203019	2.6x6 CBS	
57	2033902005	PLUG ADAPTOR	

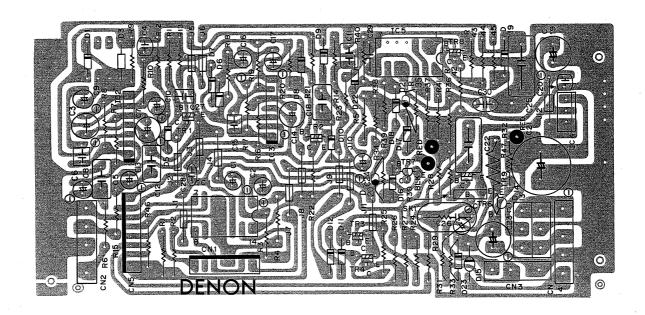




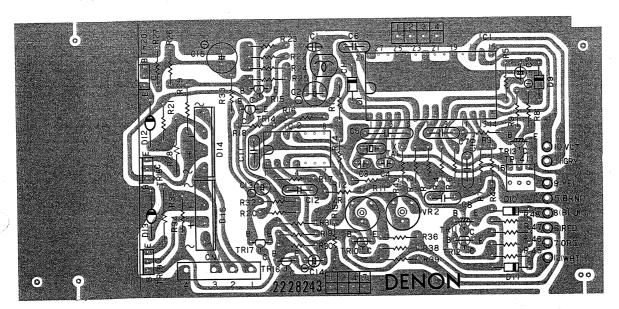
6. This wiring diagram shows basic circuit, and is subject to

modification for improvement.

KU-350E SERVO CONTROL UNIT



KU-351 QUARTZ SERVO UNIT



PS-147 POWER SUPPLY UNIT

